

PATENT ABSTRACTS OF JAPAN

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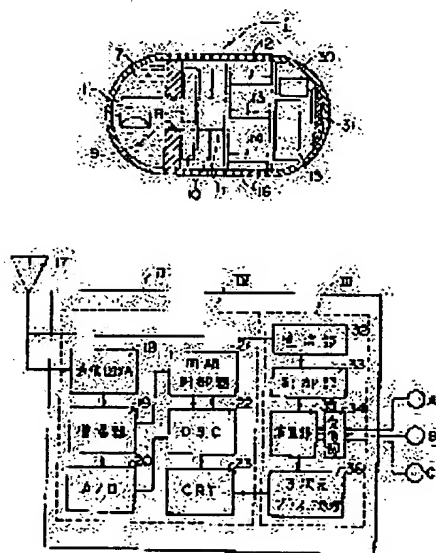
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(54) POSITION DETECTING DEVICE OF MEDICAL CAPSULE**(57)Abstract:**

PURPOSE: To obtain a device safe to living body even if it is used for a long time and capable of precisely detecting position of capsule by receiving a position detecting ultrasonic wave from a capsule for detecting various information within a body cavity in three or more of three-dimensionally different external positions.

CONSTITUTION: The control part 33 of a position detecting part II inputs a switching pulse to a communication part 32 at a fixed timing and transmits a switching wave from an antenna 17. This wave is received by a switching circuit 30 in a capsule I, which circuit drives a position detecting ultrasonic transmitting oscillator 31 and generates a position detecting ultrasonic pulse from a living body. This pulse is received by position detecting oscillators A, B, C

externally situated in at least three three-dimensionally different positions. Each time between the received time of each signal and the generating time of the switching pulse is calculated in a calculating part 35, and the resulting position is processed by a three-dimensional graphic processing part 36 and three-dimensionally indicated on a monitor with the positions of the oscillators A, B, C situated on the body surface as the standard.

**LEGAL STATUS**

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